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Siberia, Eastern - Grasses

Progressive practice in meadow and pasture improvement in Eastern Siberia. Dost. sel'khoz. No. 2, 1953.

Monthly List of Russian Accessions, Library of Congress June 1953. UNCL.

ANTOHOV, S.M.; DVIGUBSKIY, G.G.

New developer for positive films. Tekh.kino i telev. 4 no.4:45-52 Ap '60. (MIRA 13:9)

1. Nauchno-issledovatel skiy kinofotoinstitut "Mosfil'm." (Photography--Developing and developers)

DVIGUN, VM.

112-1-723

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 1, p. 120 (USSR)

AUTHORS:

Dvigun, V. M., Siromakha, B. I.

TITLE:

Pressing of Commutators of D-C Machinery with Plastic (Opressovka

kollektorov mashin postoyannogo toka plastmassoy)

PERIODICAL: Sbornik rats. predlozheniy. M-vo elektrotekhn. prom-sti SSSR, 1955, Nr 56, pp. 4-6

ABSTRACT:

A fixed cast mold is applied for the pressing of commutators with plastic; it consists of three basic parts: upper, middle and lower. The upper part consists of a punch fastened on a plate by a holder, the middle part consists of a die placed on a plate, and the lower part of a yoke and of a molding inset. Commutator plates are first molded with the micanite insulating gaskets into a ring. The ring with the plates is placed into the yoke of the casting mold. The molding operation consists of pressing the compacting powder with the punch through the gap between the ring and the die into the cavity created by the die, the molding inset and the commutator plates. The compacting powder is first pressed into briquets. The pressing is done by preheating (up to 160°) with heaters placed in the pressing tool. The pressing out of the com-

Card 1/2

112-1-723

Pressing of Commutators of D-C Machinery with Plastic (Cont.)

mutator from the ring is done on a special device. The use of the pressing tool makes possible the reduction of labor and the improvement of the quality of the plastic covering of the commutator plates.

P.A.Ya.

SOV/123-59-16-68064

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 16, p 570 (USSR)

AUTHORS: Dvigun, V.M., Siromakha, B.I.

TITLE: Pressmolds for the Molding of Apertures in Pieces of Plastic Material

PERIODICAL: Byul. tekhn.-ekon. inform. Sovnarkhoz Khar'kovsk. ekon. adm. r-na, 1958,

Nr 3, 14 - 17

ABSTRACT: At the Khar'kov Electro-Mechanical Plant new pressmolds were manufactured, in which the lateral punches are not any more pressed in and taken out by hand but by special hydraulic ejectors which can be easily detached and can be used on other pressmolds of the same type. The new pressmold is operating in the following way: When the two halves of the die are in a closed position the ejector is in the lower position, the lateral

punches are in the outer position. The punch is lifted by the main plunger of the press. Cakes which have been preliminarily warmed up on an HF-installation are put into the receiving part of the die. When the upper plunger is lowered the lateral punches are fixed by pillars, which

Card 1/2 are fastened on the upper part of the pressmolds. After each pressing

507/123-59-16-68064

Pressmolds for the Molding of Apertures in Pieces of Plastic Material

operation there is a delay of 3 - 4 minutes. At the end of the lifting stroke of the punch the automatic hydraulic ejectors are put into operation and the lateral punches are withdrawn; upon this the lower ejector is switched on and the die is lifted and opened. The described molds increase the operating efficiency, permit the pressing of long pieces and cavities at any angle and also render cheaper the cost price of the molds.

M.L.P.

Card 2/2

DVIHALLY, Zsuzsa; PONYI, Jeno

Hydrobiological conditions of the Vorosvar Valley. Hidrologiai kozlony 36 no.3:211-217 Je*56.

DVIHALLY ZSUZSA

T.DVIHALLY, Zsuzsa

Seasonal changes in the chemical composition of sodic lake waters. Hidrologiai kozlony 40 no.4:316-323 Ag '60.

1. Magyar Dunakutato Allomas, Alsogod.

HUNGARY/Cosmochemistry. Geochemistry. Hydrochemistry.

Abs Jour: Ref Zhur-Khim., No 13, 1958, 42962.

Author : Dvihally Zsuzsa, Ponyi Jeno.

Inst

Title : Chemical Composition and Crustacean Fauna of Salt-Marsh

Waters in the Vicinity of the Village of Kistelek.

Orig Pub: Hidrol. kozlony, 1957, 37, No 3, 257-263.

Abstract: Study of the water of salt marshes in one of the

districts of the Great Hungarian Plain. In chemical composition 3 groups are differentiated: 1) sodium-hydrocarbonated; containing (mg/liter): Na⁺ + K⁻7847.8-1082.4; Mg⁻ + 0-156.6; Ca⁺ + 0-15.0; CO₃ - 2179-2092.6; HCO₃ - 2047.5-14001.8; Cl⁻ 189.9-1369.5; SC₄ - 102.9-184.4; mineralization (M) 3898.9-25468.6; pH 9.55-10.58;

Card : 1/2

HUNGARY/Cosmochemistry. Geochemistry. Hydrochemistry.

D

Abs Jour: Ref Zhur-Khim., No 13, 1958, 42962.

2) ragnesium-sodium hydrocarbonated: Na + K + 160.9-597.1; Ca²+6.6-37.4; Mg²+61.6 - 139.6; CO₃ - none; HCO₃-5.5-294.7; SO₄-73.1-399.1; M 1120.6-2850.3; pH 7.85-8.44; 3) water of some flooded districts, of low M 689.0-2661.9; Na + K + 78.5-350.4; Ca²-9.3-117.4; Mg²+33.8-264.6; HCO₃-511.3-1675.9; Cl²-2.1-32.9; SO₄-12.9-198.5; pH 7.48-8.96.

Card : 2/2

10

T. DVIHALLY, Zsuzsa

Optical investigations in the Alsogod section of the Vac Danube branch. Hidrologiai kozlony 39 no.5:357-364 0:59.

1. Magyar Dunakutato Allomas, Alsogod.

DVIHALLY, Zsuzsa, T.

Calculation of underwater distribution of radiant energy as a problem of production biology. Acta biol Hung 11 no.2:77-89 '60. (ERAI 10:2)

1. Hungarian Danube Research Station, Alsogod (Head: E.Dudich)
(WATER) (BIOLOGY)

T. DVIHALLY, Zeuzea

Data on the evaluation of chemical conditions of the Damube water. Hidrologiai kozlony 43 no.3:268-271 Je '63.

VAGAS, Istvan; T.DVIHALLY, Zsuzsa

Thoughts and proposals concerning the evaluation of chemical conditions of the Danube water. Hidrologiai kezleny 43 no.6: 526-527 D 163.

1. Vizgazdalkodasi Tudomanyos Kutateintezet, Budapest; "Hid-rologiai Kozleny" szerkeszte bizottsagi tagja es rovatvezeteje (for Vagas).

IAZFRKO, G.A.; DVINIENKO, I.A.; ZARETSKIY, M.V.

Winetics of the formation of double emmoniates. Zhur. fiz. khim. 39 no.9:2169-2174 S '65. (MIRA 18:10)

1. Belshusekly goauderstownnyy universitet imeni V.I. Lenina.

DVINIKOV, L. I.; BORISOVA, Z. Yu.

"Investigation of vitreous semiconductor alloys."

report submitted for 4th All-Union Conf on Structure of Glass, Leningrad, 16-21 Mar 64.

DYININ, G.M.; MISHANSKIY, I.M.; DUBKOV, A.A.; MALAKHOVSKIY, G.F.;
DHYAGIN, P.A.; BUCHEL'NIKOV, D.V.

Working placer layers in a transverse ravine with the aid of explosives. Prom.energ. 15 no.2:20 F 160.

(MIRA 13:5)

(Mining engineering)

DVININ I. V.

36117 Materialy po ispol'zovaniyu i Khraneniyu ugley GusinoozersKogo mestorozhdeniya Buryat-Mongol'skoy ASSR. Zapiski Buryat-Mongol. nauch.-issled. in-ta kul'tury i ekonomiki, VIII, 1948, S. 25-44.

SO: Letopis' Zhrunal' nykh Statey, No. 49, 1949

DVINIM, P. A.

21932 DVINIII, P. A. Massovyve skopleniya moloddi lososevykh u beregov Sakhalina. Ryb. khoz-vo, 1949, No. 7, s. 39-41

SO: Letopis Zhurnal'nykh Statey, No. 29, Moskva, 1918.

DVENTH, P.A.

29178

Migratsii gorbush. u beregov Sakhalina. Ryb. Khoz-vo, 1949, No.9, s. 35-37.

SO: Letonsi' Zhurnal'nykh Statey, Vol. 39, Moskov, 1949

DVININ, P. A.

37278. Czernyy kizhuch oneorhynchus kisutch (albaum) morpha relictus nova. Doklady amad. Nauk sssr, novaya seriya, T. lxix 5, 1949, s. 695-97

SO: Letopis' Zhurnal'nykh Statey, Vol. 7, 1949

DVININ, P. A.

Agriculture

Sakhalin salmon. Vladivostok, Izd. Tikhookeanskogo nauchno-issledovatel'skogo instituta rybnogo khoziaistva i okeanografii, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

DVININ, P. A.; PAVLOV, I. S.

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Fish reserves of the northern part of the eastern shore of Southern Sakhalin, Ryb. khoz. 29, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Unclassified.

DVININ, P.A.

Distinctive features in the biology of the Pacific salmon Oncorhynchus masu Brevoort of Sakhalin. Vep.ikht. no.7:33-35 '56.

(MLRA 10:3)

1. Tikhookeanskiy nauchno-issledovatel'skiy institut rybnogo khosyaystva i okeanografii.

(Sakhalin-Salmon)

DVININ, P.A.

Some specific features of the young of humbacked salmon (Oncorhynchusgorbuscha Walbaum) at the time of their descent from the rivers of Sakhalin to the sea. Zool.zhur. 38 no.8:1268-1269.

Ag 159. (MIRA 12:11)

1. Sakhalin Branch of the Pacific Research Institute of Fishery Management and Oceanography. Sakhalin Region, Tshekhov District. Post Office of Antonovo.

(Sakhalin--Salmon)

DVININ, V.; DRALOV, G., deviator

Radio direction finding trainer. Mor. flot 23 no.5:15-16 '63.

(MIRA 16:9)

1. Starshiy inzh. po radionavigatsionnym priboram Azovskogo
upravleniya (for Dvinin).

(Radio direction finders) (Nautical training schools)

DVININ, Yevgeniy Aleksandrovich; BOBROV, Yu.A., red.; YEVSEYEV, P.I., tekhn.red.

[The region we live in] Krai, v kotorom my zhivem. Murmansk, Murmanskoe knizhnoe izd-vo, 1959. 279 p. (MIRA 13:6) (Murmansk Province--Economic conditions) (Murmansk Province--History)

DVININA, I.

Siberian miners' city. Mast. ugl. 7 no.8:24a-24b Ag '58.

(MIRA 11:9)

(Cherenkhovo-Description)

Dvinov, H. S.

N/5 105.22 .D9

Osnovnyye Pravovyye Voprosy Deya-tel'nosti Gosudarstvennykh Torgovykh Organizatsiy (Easic Legal Questions on the Activities of State Commercial Organizations, by)

M. S. Dvinov (1 Dr.)

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239 P. Tables.

Bibliographical Footnotes.

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Vibration insulating effect of the commencers of gas axhaust pipes of internal combustion engines. Trudy LIVI no. 59:38-44 (8081 18:50)

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DVINSKAYA. L. M.: "The effect of the sesson of the year and the amount of work on changes in the blood composition of horses of vario's breeds." Moscow Order of Lenin Agricultu al Academy imeni K. A. Timiryazev. Moscow, 1956 (Dissertation for the Degree of Candidate in Agricultural Science)

So: Knizhnava Letopis', No. 18, 1956

L 9777-66 EWT(d)/EWT(1)/EEC(k)-2/FCC/EWP(1)/EWA(h) IJP(c) BB/GG/GW ACC NR: AP5025479 SOUNCE CODE: UR/0203/65/005/005/0884/0891

AUTHOR: Galkin, A. I.; Dvinskikh, N. I.

64 B

ORG: Institute of Earth Magnetism, Ionosphere, and Radiowave Propagation SO AN SSSR (Institute zemmogo magnetizma, ionosfery y rasprostraneniya radiovoln SO AN SSSR)

TITLE: Electronic computer data processing of the vertical panoramic zoning of the ionosphere

SOURCE: Geomagnetizm i aeronomiya, v. 5, no. 5, 1965, 884-891

TOFIC TAGS: computer technology, data processing, algorithm, ionosphere, computer toleulation

ABSTRACT: The existing methods of even a preliminary data-processing of the vertical panoramic zoning of the ionosphere and especially the programming for computing the N-h profiles cannot be handled judiciously by electronic computers. An algorithm was suggested, assigning the entire task of the preliminary data-processing to the computer. The algorithm yields a programming by virtue of which a reliable high-frequency characteristic is obtained from the registered

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UDC: 550.388.2

L 9777-66 ACC NR: AP5025479

preliminary data. The time coordinates of all signals, irrespective of whether or not the signals carry useful information, are fed into the computer. The computer performs the selection of useful signals based on the analysis of the time intervals between separately registered impulses while some a priori information concerning the structure of the layers of the ionosphere is utilized. The sifting of noise and the construction of the ramification of the high-frequency characteristic are performed simultaneously. At the conclusion of the program all the standard characteristic of the ionosphere (the altitudes of the layers and their critical frequencies). The smooth sections of the high-frequency characteristic are subsequently used for the construction of N-h profiles. The description of the program is given in operator form. Orig. art. has: 4 figures.

SUB CODE: 09,04/SUBM DATE: 11Aug64/-

NR REF SOV: 004/ OTHER: 000

(Left)
Card 2/2

DVINSKIKH, V. A.

Power transformer cores. Radio no.8:51 Ag 153.

(MLRA 6:8) (Rudio--Transformers)

110-7-8/30

AUTHOR: Dvinskikh V.A. (Engineer). TITLE: Single-phase shell-type transformers with specially wide cores. (Odnofaznye transformatory s ushirennymi serdech-

PERIODICAL: "Vestnik Elektropromyshlennosti" (Journal of the nikami bronevogo tipa). Electrical Industry, Vol.28, No.7, 1957, pp.27-30 (USSR).

ABSTRACT: Single phase shell-type transformers are widely used. Economy of materials, particularly non-ferrous, can be achieved by rational design of the transformers. In particular, transformers of the shell-type in which the ratio of the width of the centre core to double the width of the outside one is less than unity serve this purpose. Cores of this kind with specially wide yokes are used in low frequency transformers and in power transformers of low output. The use of cores with wide yokes results in a cost reduction of 6 to 8%. The core section is reduced under the winding and increased elsewhere. The object of this article is to provide material for the redesign of existing transformers as transformers with wide cores, maintaining the electrical properties, and with the greatest possible economy. A formula is first derived (see appendix 1) for transformers of a power of some hundreds VA assuming Card

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"APPROVED FOR RELEASE: 08/25/2000

The Determination of the Average Complex Transfer Function of

quadripole and the linear quadripole in such a manner that the modulus of the transfer function of the latter is greater than the reciprocal of the modulus of the complex transfer function of the non-linear quadripole. When the above conditions are fulfilled, the system will oscillate. The development of the oscillations is determined by the dependence of the average complex transfer function on the amplitude of the oscillations. The system will become stable when the following relationship is fulfilled:

$$K_{er}(A_1, \omega_0)\beta(\omega) = 1$$
 (1)

where Kgr denotes the average complex transfer function of the non-linear quadripole (when the oscillation amplitude is A_1 and the frequency ω_0) and β is the complex transfer function of the auxiliary linear quadripole. Since β is known, Eq (1) can be used to

Card 2/3

SOV/120-59-2-35/50

AUTHOR: TITLE:

Dvinskikh, V.A.

A Method of Measuring Small Non-linearities in Four-poles

(Metod izmereniya malykh nelineynostey chetyrekhpolyus-

nikov)

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 2,

p 120, (USSR)

ABSTRACT: A method using a sawtooth voltage and a differentiator has already been described in Ref 1. A non-linearity of 0.1% can be readily detected. It is proposed that by closing a loop round the four-pole using an auxiliary four-pole of impeccable linearity and variable transfer function the dependence of the response of the original four-pole on input level can be determined. It is stated that using a two-mesh RC auxiliary and a MSR-47 resistance box non-linearities of 0.01% have been revealed at

1000 c/s.

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A Method of Measuring Small Non-linearities in Four-poles

There is 1 English reference.

ASSOCIATION: Saratovskiy gosudarstvennyy universitet (Saratov State University)

SUBMITTED: March 21, 1958

Card 2/2

9 (2)

4 _ 3

06355 SOV/142-2-4-8/26

AUTHOR:

Dvinskikh, V.A.

TITLE:

An Indirect Method of Measuring the Modulus and the Phase of the Mean Complex Amplification Factor of

Quasilinear Amplifiers

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, 1959, Vol 2, Nr 4, pp 437-445 (USSR)

ABSTRACT:

The author describes an indirect method of measuring the modulus and the phase of the mean complex amplification factor of quasilinear amplifiers, resonance amplifiers, band amplifiers, wideband amplifiers. This method was published by the author at the Second All-Union Conference on Radio Electronics, held by the MVO SSSR in Saratov in September 1957. For measuring the mean complex amplification factor, a feedback fourpole is used which produces self-oscillations. The wanted modulus and the phase are determined for the steady-state oscillations according to the known parameters of the four-pole. The author establishes the

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An Indirect Method of Measuring the Modulus and the Phase of the Mean Complex Amplification Factor of Quasilinear Amplifiers

> connection between the amplifier parameters and the additional four-pole, describes the regions of stable oscillations and estimates the accuracy of the indirect measuring method. The accuracy estimation of the indirect measuring method can be performed only within the frame of an analysis, accounting for the presence and influence of the higher harmonics. This was explained by the author at the All-Union Scientific Session of NTOR i E imeni A.S. Popov in Moscow in 1958. The author compares measuring results obtained by the direct and indirect methods. The measuring results of the modulus and the phase of the amplification factor coincide practically with small oscillation amplitudes. The phase values will differ from the actual values by an essential magnitude only in case of considerable amplitudes. The indirect method of measuring the modulus and the phase of the amplifier amplification provides a simplification of the measuring circuits. The circuits

Card 2/3

06355 SOV/142-2-4-8/26

An Indirect Method of Measuring the Modulus and the Phase of the Mean Complex Amplification Factor of Quasilinear Amplifiers

for which the indirect method has been used, comprise a very wide range of amplifiers. The author expresses his gratitude to his supervisor V.I. Kalinin for his interest in this work. The publication of this article was recommended by the Department of Radio Physics of the Saratovskiy gosudarstvennyy universitet imeni N.G. Chernyshevskogo (Saratov State University imeni N.G. Chernyshevskiy). There are 5 circuit diagrams, 2 sets of graphs and 13 references, 12 of which are Soviet, and 1 American.

SUBMITTED: January 12, 1959 (April 10, 1958)

Card 3/3

sov/109---4-3-27/38 AUTHOR: Dvinskikh, V.A.

TITLE: Evaluation of the Accuracy of the Indirect Method of Phase

Measurement (Otsenka tochnosti kosvennogo metoda

izmereniya fazy)

PERIODICAL: Radiotekhnika i Elektronika, Vol 4, Nr 3, 1959, pp 534-535 (USSR)

ABSIRACT: A number of authors (Refs 1-5) proposed a method of measuring the phase shifts in linear quadripoles, in which the investigated device is connected into the sirealt of an oscillator and the phase shift is determined indirectly by measuring the change in the frequency of the oscillator. The problem of the errors arising in this type of measurement is of some practical interest. These can be investigated by considering an oscillator with an LC tuned circuit in the anode and an inductive courling between the anode and the grid. It is shown that, at the grid current and the anode resistance are neglected, the

operation of the system can be described by the Gard 1/3 following non-linear differential equation:

SOV/109- --4-3-27/38 Evaluation of the Accuracy of the Indirect Metho. of Phase Measurement

$$\ddot{v} + \omega_{o}^{2} v = \left[\omega_{o}^{2} M \frac{df(v)}{dv} - \omega_{o} \delta \right] \dot{v} , \qquad (1)$$

where v is the voltage at the grid, ω_o is the resonance frequency of the circuit, δ is the damping coefficient of the circuit, M is the mutual inductance and $df(\tau)/d\tau$ represents the dynamic slope of the anode-grid characteristic. The solution of this differential equation can be done by the method of a small parameter (Ref 9). For this purpose, a notation defined by Eqs (3) and (4) 43 introduced and the integration variable is defined by Eq (5). Eq (1) can, therefore, be written as Eq (6) and its solution is in the form of Eq (7). The zero approximation of the solution is given by Eq (9) (where M is an arbitrary constant), while the first approximation is expressed by Eq (11). The second approximation sate by found from Eq (15). From the above analysis it is concluded that in order to reduce the error in the above method of phase measurement, the investigated quadring the Card 2/3 should not change the form of the oscillations;

SOV/109---4-3-27/38 Evaluation of the Accuracy of the Indirect Method of Phase Measurement

in particular, the quadripole should not be in the form of a resonant circuit. Secondly, the signal of the oscillator should be the same in the presence as in the absence of the investigated network. Thirdly, if the measured network contains any non-linearities, the measurement should be carried out at the smallest possible signal voltage.

signal voltage.

Card 3/3 Signal voltage.

There are 9 references, 3 of which are Soviet, 5 English and 1 German.

SUBMITTED: July 10, 1958

87359 3/120/60/000/004/008/022 E073/E435

9.6000 (3702, 1613, 1049)

AUTHOR: Dvinskikh, V.A.

Noise-Immune Bridge Measuring Circuits

PERIODICAL: Pribory i tekhnika eksperimenta, 1960, No.4, pp.87-83

The author recommends using bridge circuits in which the measuring equipment is characterized by a certain reduction coefficient β (ratio of the output to the input voltage). A narrow-band amplifier is chosen whose maximum gain $K > 1/\beta$ In this case, if the corresponds to signals of a frequency ω . sum of the phases equals zero, undamped oscillations will occur in the noninteracting closed loop: measuring part-additional During further balancing, while decreasing β , a sudden cessation of the oscillations will take place which can be easily recorded by means of an indicator which is switched-in to the output of the amplifier. A bridge circuit (see the figure) based on this method contains an amplifier timed to a frequency a balanced transformer which permits using the bridge in the case of measuring nonsymmetric loads and a calibrated phase shifter. For measuring the frequency and amplitude of the oscillations, a wavemeter and a level-indicator are used. The amplifier, the Card 1/5

87369

S/120/60/000/004/008/028 E073/E435

Noise-Immune Bridge Measuring Circuits

transformer, the bridge and the phase shifter form a noninteracting closed system in which undamped oscillations occur if the following conditions are fulfilled:

Eq. (1)

$$\left|\frac{\dot{U}_{ab}}{\dot{U}_{cd}}\right| < |K_{yc}(j\omega)K_{Tp}(j\omega)K_{Rp}(j\omega)| \quad (1)$$

$$\Sigma \phi = \phi_{yc} + \phi_{Tp} + \phi_{M} + \phi_{Rp} = 0, \quad (2)$$

Eq. (2)

where K_{yc} , K_{Tp} , K_{k} are the transfer coefficients of the elements of the system and ψ_{yc} , ψ_{Tp} , ψ_{k} , ψ_{M} are the phase shifts in these. Assuming that all elements of the system are linear, Eq.(1) for the case of steady-state oscillations of the amplitude A_{1} and the frequency ω can be written as

Eq.

$$\left|\frac{\dot{U}_{ab}}{\dot{U}_{ed}}\right| = |K_{yc. cp}(j\omega)| |K_{Tp}(j\omega)K_{\kappa\phi}(j\omega)|, (3)$$

Card 2/5

87369 \$/120/60/000/004/008/028 E073/E435

Noise-Immune Bridge Measuring Circuits

where $K_{yc,cp}(j\omega)$ is the modulus and the average complex gain of the amplifier for signals of the amplitude A_1 and the frequency ω . Change in the value of Φ_B by the phase shifter ensures obtaining steady-state oscillations of the frequency ω_0 . From Eq.(2) and (3) $|\hat{U}_{ab}/\hat{U}_{cd}|$ and $|\hat{\Psi}_{M}|$ are calculated. In view of the non-linearity of the amplifier, the phase is measured with an error (Ref.3) which decreases with decreasing oscillation amplitude. the case of reactances, this circuit enables independent balancing for the modulus and the phase. For the measurement of pure resistances, the phase-shifter and the wavemeter can be dispensed with. The sensitivity of the measuring circuit in the case of using a multistage resonance amplifier can be such that a deviation from the balanced state corresponding to 10^{-6} to 10^{-8} absolute value of the measured resistance can be detected. In relative measurements, for instance for detecting slight changes in any element of the circuit, the sensitivity can be increased by a factor of 10 to 20, if the system is made to operate in the neighbourhood of the quench boundary of the oscillations. Card 3/5

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Noise-Immune Bridge Measuring Circuits

in this case rigid requirements have to be met relating to the stability of all the elements of the circuit, in the first instance, the gain of the amplifier. On the basis of the circuit for measuring pure resistances, a bridge with automatic balancing can easily be realized if the level indicator is substituted by a high-sensitivity relay. Experiments on a bridge circuit with an amplifier tuned to 1000 cps and having a gain of 490 have shown that deviations from the balanced state not exceeding 0.3% can be detected. There are 1 figure and 3 Soviet references.

(Note: This is a condensed translation.)

SUBMITTED: June 7, 1959

Card 4/5

87369 \$/120/60/000/004/008/028 E073/E435

Noise-Immune Bridge Measuring Circuits

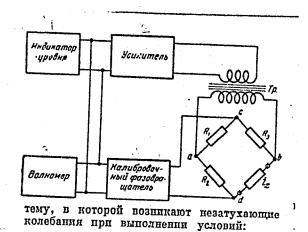


Fig.

1 - level indicator;

2 - amplifier; 3 - wavemeter;

4 - calibration phase

shifter

Card 5/5

DVINSKIKH. Y.A.

Circuits for sorting parts of electric circuits, Ism, tekh, no. 10: 42-45 0'60. (MIRA 13:10) (Electric circuits-Testing)

DVINSKIKH, Vasiliy Aleksandrovich; KUZ'MINOV, A.I., red.; SHIROKOVA, M.M., tekhn. red.

[Measuring networks with self-excitation]Izmeritel'nye skhemy s samovozbuzhdeniem. Moskva, Gosenergoizdat, 1962. 47 p.
(MIRA 15:10)
(Electric networks) (Electric measurements)

359914

S/109/62/007/004/017/018 D230/D302

9,25**7**/ 9,4230 AUTHOR:

Dvinskikh, V.A.

TITLE:

On the possibility of measuring small reflections in

self-excited systems

PERIODICAL:

Radiotekhnika i elektronika, v. 7, no. 4, 1962,

716 - 720

TEXT: This is a description of simple broadband apperatus for measuring small reflection coefficients; the operation is based on the property of self-excitation of the system. An amplifier with negative feedback, a directional coupler, attenuator and a band-pass filter form a generator circuit. Oscillations in this generator take place when the amplitude of reflections from the element under test exceeds a fixed level. The instrument is capable of broadband v.s.w.r. indication within limits 1.05 to 1.2 with an error not less than ± 10 %; the lower limit can be reduced to v.s.w.r. = 1.02 by using precision directional couplers. In the second arrangement proposed the band-pass filter is replaced by a narrow-band cavity with a modulator and a monitoring oscilloscope. In this, selected Card 1/3

On the possibility of measuring ...

S/109/62/007/004/017/018 D230/D302

parts of the region are investigated for which the reflection coefricient exceeds a fixed value. A similar band-pass measuring device can be designed using ferrite resonators. In the third method, improved indication of the resonant frequency coincidence is obtained by using phase modulation; this is achieved by appropriately modulating a travelling-wave amplifier. At a frequency equal to the resonant frequency of the cavity the output signal will contain only the second harmonic of the modulator frequency to which the amplifier is tuned; this system requires considerably stability of operating conditions. In practical cases, there exist usually a number of reflections from various points in the circuit. The discrete reflection points are round by controlling the feedback and by varying the excitation of the single-frequency oscillation corresponding to the point of reflection and maximum v.s.w.r. The discussion includes a critical examination of the performance of the constituent components and limiting conditions affecting the reading accuracy of the apparatus described. There are 3 figures and 7 references: 5 Soviet-bloc and 2 non-Soviet-bloc. The references to the Englishlanguage publications read as follows: I.C. Dix, M. Sherry, A microwave reflectometer display system for 7500 to 1100 mc/s. Elec-Card 2/3

On the possibility of measuring ...

S/109/62/007/004/017/018 D230/D302

tronic Engng, 1950, 31, 371, 24; W.R. Beam, D.I. Blattner, Phase angle distortion in travelling wave tubes, R.C.A. Rev., 1956, 17, 186.

SUBMITTED: August 7, 1961

Card 3/3

DVINSKIKH, V.A.

Plotting meters of four-pole transmission factors with a digital reading. Priborostroenie no.12:4-5 D*63. (MIRA 17:5)

S/109/63/008/002/024/028 D413/D508

AUTHOR:

Dyinskikh, V.A.

TITLE:

On the possibility of estimating the noise of a microwave amplifier in a self-oscillatory circuit

PERIODICAL:

Radiotekhnika i elektronika, v. 8, no. 2, 1965,

344-346

TEXT: The author describes a method for evaluating microwave amplifier noise by applying suitable overall positive feedback to induce self-oscillation; the output signal, consisting of sincture plus noise, passes through a mixer and bandpass amplifier, and the noise power level is measured with a square-law detector device, then being compared with the level when further noise is injected into the amplifier input. The errors of this method are discussed in the light of I.L. Bershteyn's statistical theory (Izv. AN SSSR, fiz., v. 14, no. 2, 1950, 145), and the choice of parameters is considered. Comparative measurements of noise factor of low-noise decimetric TWTs by this method and by using a superhet receiver have giv-

On the possibility ...

\$/109/63/008/002/024/028 D413/D308

en results differing by not more than 1.5 dB; in this work the resonator in the positive feedback loop had a Q of the order of 100, and the center-frequency of the bandpass amplifier was 40 mc/s. There are 3 figures.

SUBMITTED: February 8, 1962

Card 2/2

DVINSKIKH Vasiliy eksandrovcih; MIRSKIY, G.Ya., retsenzent; SREFENSKIY, V.N., retsenzent; GOLOVANOVA, L.V., red.

[Measurement of the parameters of amplifiers using a selfexcitation mode] Izmereneie parametrov usilitelei s primeneniem rezhima samovozbuzhdeniia. Moskva, Sovetskoe radio, 1965. 231 p. (MIRA 18:3)

DVINSKIKH, V.A., kand. fiziko-matem. nauk

Measuring capacitances of capacitor pickups in a self-excited bridge circuit. Priborostroenie no.5:3-5 My '65.

(MIRA 18:5)

L 3018-66 EWT(d)/EWT(l)/EEC(k)-2/EWA(h) AM5013194 BOOK EXPLOITATION 18 621.375:621.317.6 10 Dvinskikh, Vasiliy Aleksandrovich Use of self-oscillation methods in measuring amplifier parameters (Izmereniye parametrov usiliteley s primeneniyem rezhima samovozbuzhdeniya) Moscow, Izd-wo "Sovetskoye radio," 1965. 231 p. illus., biblio. 7500 copies printed. TOPIC TAGS: self oscillation measuring measurement, amplifier parameter measurement, gain measurement, phase shift measurement, characteristic measurement, noise factor measurement, auxiliary feedback, quasi linear amplifier, power output measurement, nonlinearity measurements PURPOSE AND COVERAGE: This book is intended for engineers and technicians concerned with testing vacuum-tube and semiconductor amplifying elements. It may also be useful for radio specialists working in this field and for students taking courses in related fields at schools of higher technical education. Methods of measuring basic amplifier parameters, such as gain, power output, noise factor, harmonic distortion factor, and input-output emplitude characteristics are discussed. It is shown that in a majority of practical cases (including automatic control), these parameters can be measured by converting the

L 3018-66 M5013194					8
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Secret of the winding machine designed by Egorov. Izobr.i rats. no.2:58-59 F '60. (MIRA 13:8)

(Winding machines)

- 1. DVINSKIY, Ye.
- 2. USSR (600)
- 4. Coal-Mining Machinery
- 7. Soviet mining technology. Znan. sila, no. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

USSR/Human and Animal Physiology. Digestion. The Stomach.

T-7

Abs Jour: Ref Zhur-Biol., No 12, 1958, 55712.

Author : Dvinyakov, L.I.

Inst : Institute of Physiology. Academy of Sciences USSR.

Title : Secretion Characteristics of the Lesser and Greater

Stomach Curvatures in Imaginary Feedings of Dogs

After Esophagotomy.

Orig Pub: Tr. In-ta fiziol. AN SSR, .957, 6, 498-508.

Abstract: After esophagotomy has been performed on dogs with

stomach fistula and with ventricles severed from the lesser and greater curvatures, an imaginary feeding (IF) of bread, neat, or milk effected a secretion of acid gastric juice from only the lesser curvature ventricle. The greater curvature

Card : 1/2

97

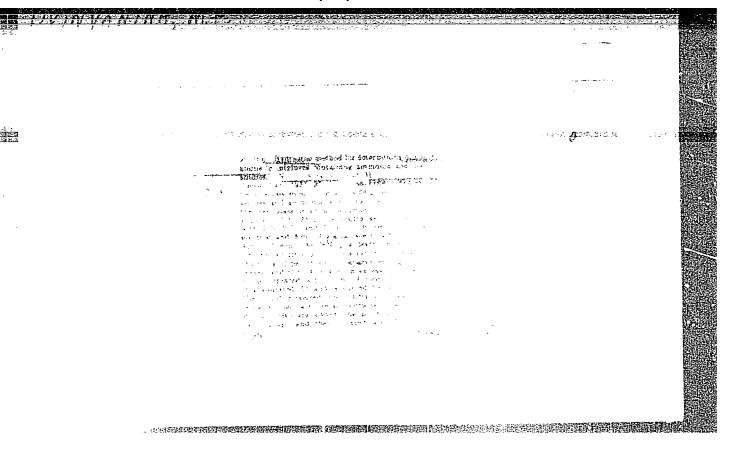
USSR/Human and Animal Physiology. Digestion. The Stomach.

T-7

Abs Jour: Ref Zhur-Diol., No 12, 1958, 55712.

ventricle secreted micus only, without HCl being liberated. In imaginary feedings of dogs who were kept on a neat or carbohydrate and milk diet, the lesser curvature secretion and acidity were larger than in dogs who were kept on a mixed diet. After IF the latent secretion period of the lesser curvature did not change, but the latent secretion period of the greater curvature increased. In some cases of dogs with ventricles severed from the lesser curvature and from the pyloric section, IF did not effect secretion, not even the secretion of the lesser curvature. After IF with neat, carbolic cholin (0.25 ng injected into the stomach) increased secretion, acidity, and the digestive capacities of gastric juice in all dogs. After IF, secretion

Card : 2/3



"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000411620014-2

AUTHORS:

Alekseyev, N.F., Yakobson, L.G., <u>Dvinyanina</u>, N.P.,

32-3-12/52

Lavrent'yeva, H.N.

TITLE:

The Accelerated Analysis of Mixtures Containing Ammonia and

Hethylamine (Uskorennyy analiz smesey, soderzhashchikh ammiak

i metilaminy)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol. 2h, Nr 3, pp. 283-287 (USSR)

ABSTRACT:

A method of determination was worked out which was developed from three different methods. One of them is the chromategraphic analysis according to Fuks and Rappoport /Ref. 37. From a hydrochloric acid solution three samples are taken. In the first sample dimethylamine is determined polarographically or by hydrazinemethod. In the second sample the hydrochlorides of ammonia and monomethylamine are treated with butancl and chloroform. The third sample serves for the chromatographic determination of trimethylamine. Should the solution contain less than 0.25 g/l amnonia, determination of ammonium chloride cannot be carried out with butanol but, according to Leon/Ref. $\overline{2}$, by a precipitation with

Card 1/2

The Accelerated Analysis of Mixtures Containing Ammonia and Methylamine

32-3-12/52

sedium cobaltinitrite. The extraction of trimethylamine in chromatographic determination is carried out, instead of with butanol, with benzene according to Gerber and Hildi /Ref. 9/, as in this way a better separation is attained. Chromatographic determination was carried out in a mixture of starch and calcium oxide with bromothymol blue. Titration is carried out with a 0.02-0.05n sulphyric acid solution. The accuracy attained satisfied the demands made by industry and analysis is said to take three hours. There are 2 tables, and 9 references, 5 of which are Slavic.

ASSOCIATION: Kemerovo Nitrogen Fertilizers Plant (Kemerovskiy azotno-tukovyy zavod)

AVAILABLE: Library of Congress

1. Ammonium compounds-Analysis 2. Methylamine compounds-Analysis

3. Eutanol-Applications L. Chloroform-Applications

Card 2/2

DVINYANINOV, A.V.; YANKOVSKAYA, Ye.I.

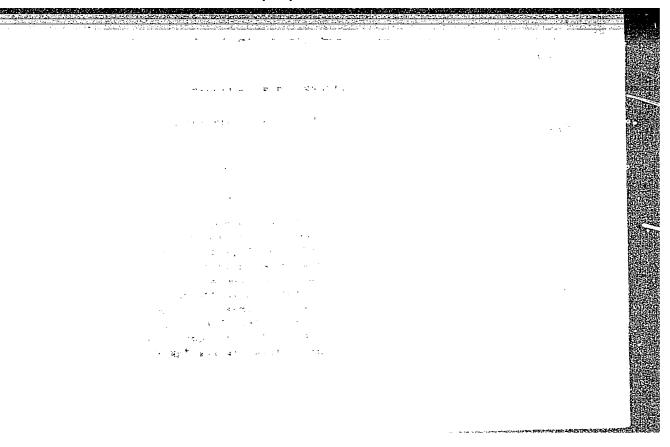
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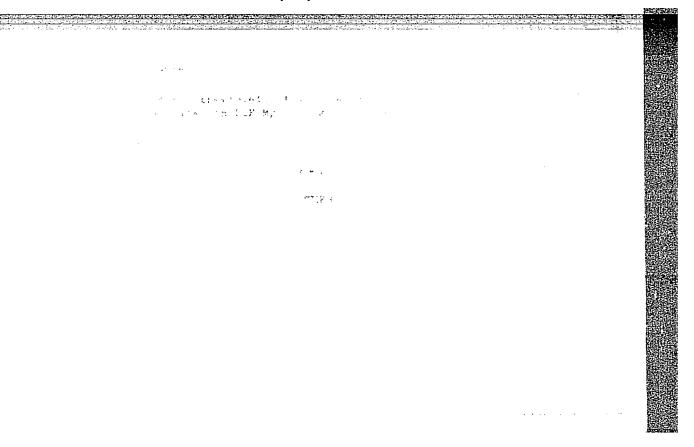
Calculating the influence of relief on wind velocity in planning electric power transmission lines. Sbor. rab. Kuib. gidromet. obser. no.1:5-37 '64. (MIRA 17:12)

GAVRILOV, F.F.; BEZEL', V.S.; DVINYANINOV, B.L.; KNYAZYUK, L.V., inzh., retsenzent; DUGINA, N.A., tekhn. red.

[Safety measures in X-ray defectoscopy] Bezopasnost' raboty rentgenologa pri defektoskopii. Moskva, Mashgiz, 1963.
77 p. (Biblioteka kontrolera-mashinostroitelia, no.8)
(MIRA 16:10)

(X rays-Safety measures)





EWT(1)/EPA(s)-2/EWT(m)/T/EWP(t)/EWP(b)/EWA(c) LJP(c) JD/JG/GG UR/0139/65/000/003/0175/017 AP5017194 ACCESSION NR: AUTHORS: Shuligin, B. V.; Gavrilov, F. F.; Dvinyaninov, B. L. TITLE: Dielectric constant of single crystals of lithium hydride 21,44,65 IVUZ. Fizika, no. 3, 1965, 175 TOPIC TAGS: lithium compound, dielectric constant, crystal lattice structure, crystal lattice vibration ABSTRACT: To determine the wavelength of the natural oscillations of the LiH lattice the authors measured the dielectric constant of transparent crystals with average dimensions 8 x 4 x 1 mm. Under the influence of light, the crystals soon assumed a blue color. The dielectric constant was measured with a capacity meter at 500 kcs and 23C. The value of the dielectric constant was found to be 10.5 ± 0.26. The accuracy of the method was checked by determining the electric constant of Zn, Sn, and LiF which agreed with the published data. The wavelength obtained for the natural vibrations of the LiH lattice is

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L 15565-66 EWT(1)/EWT(m)/EWP(t)/EWP(b) IJP(c) JD/JG

ACC NR: AP6004407 SOURCE CODE: UR/0051/66/020/001/0074/007

AUTHOR: Dvinyaninov, B. L.; Gavrilov, F. F.

ORG: none

TITIE: Color centers in lithium hydride

SOURCE: Optika i spektroskopiya, v. 20, no. 1, 1965, 74-77

TOPIC TAGS: absorption spectrum, single crystal, lithium compound, ionic hydride, color center, alkali halide

ABSTRACT: The optical absorption spectra of lithium hydride are studied as a function of time of exposure to light. Single crystals were grown by slowly cooling a melt of hydrated lithium. Unfiltered light from a mercury tube was used for preliminary exposure of the crystals. All crystals showed a strong absorption band in the 2400 Å region. This band is probably due to F-centers. This is the only absorption band observed in pure undyed crystals of lithium hydride. As exposure time is increased, a new maximum in the absorption spectrum is observed in the 3600 Å region. The F-band is also somewhat broadened. The crystals take on a smoked color which is

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ACC NR: AP6004407

gradually intensified to complete opacity. The absorption spectrum for these crystals stretches throughout the entire visible region. The most intense coloring is observed in the surface layer when the crystals are exposed from one side. This is probably due to absorption of the light in the crystal. Bands were also observed with absorption maxima at 5400, 7000 and 95000 A. A qualitative analysis of these spectra shows that the bands are due to the formation of color centers as in alkali halide crystals. These bands are most clearly observed in crystals contaminated by metal impurities, but they are also seen in pure crystals. Theoretical calculations are compared with experimental data for the wavelengths at various color centers. The results show that color centers in lithium hydride have spectral characteristics similar to those in alkali halide crystals. In conclusion the authors are grateful to L. A. Mal'tsev who assisted in making some of the measurements. Orig. art. has:

SUB CODE: 20/ SUBM DATE: 28Jul64/ ORIG REF: 000/ OTH REF: 008

60

Card 2/2-

SOURCE CODE:

UR/2694/65/000/143/0059/0061

AUTHOR: Shul'gin, B. V.; Gavrilov, F. F.; Dvinyaninov, B. L.

ORG: none

TITLE: Concerning F-centers in LiF crystals

SOURCE: Sverdlovsk. Ural'skiy politekhnicheskiy institut. Trudy, no. 143, 1965.

Atomnaya i molekulyarnaya fizika (Atomic and molecular physics), 59-61

TOPIC TAGS: lithium fluoride, color center, absorption spectrum, hyperfine structure, epr spectrum, ionization spectrum

ABSTRACT: The purpose of the investigation was to estimate theoretically what changes in the widths of the hyperfine splitting lines can be expected in the case when the F-centers in LiF crystals are in a state where they form weak associations, rather than being in a state of isolated defects. The analysis is based on comparison of experimental results on the EPR absorption spectrum of the F-centers in LiF crystals, produced by ionizing radiation, and similar results obtained for KCl. From a plot of the F-center exchange-interaction frequency against the distance between F-centers it is deduced that narrowing down of the hyperfine interaction lines in the EPR spectra of LiF crystals should be observed at distances on the order of four lattice constants between F-centers. This corresponds to an F-center concentration ~10²¹ cm⁻³, which agrees with experimental data. The estimated change in the line width is by a factor approximately 1.28. This means that if the width of the hyperfine inter-

Card 1/2

action in LiF state is 14 gauss, as published in the literature, then in the initial state it should be 18 gauss. Appropriate experiments are needed to confirm this value. Orig. art. has: 1 figure and 6 formulas.

SUB CODE: 20/ SUBM DATE: 00/ ORIG REF: 001/ OTH REF: 007

Card 2/2

SOURCE CODE: UR/2694/65/000/143/0067/0070

AUTHOR: Leshchenko, Yu. I.; Kirsanov, V. V.; Dvinyaninov, B. L.

ORG: none

TITLE: Operation of the EG-2.5 in a mode in which proton and deuteron beams are used simultaneously

SOURCE: Sverdlovsk. Ural'skiy politekhnicheskiy institut. Trudy, no. 143, 1965. Atomnaya i molekulyarnaya fizika (Atomic and molecular physics), 67-70

TOPIC TAGS: electrostatic accelerator, proton beam, deuteron beam, neutron reaction/ EG-2.5 electrostatic accelerator

ABSTRACT: The authors report tests performed in 1960-1963 on the electrostatic accelerator EG-2.5 of the Electrophysics Laboratory of the Ural Polytechnic Institute, using a proton beam and a beam of deuterons with energy up to 1.5 Mev. The beams were used both separately and simultaneously. The desired end result was to obtain two beams that are close in magnitude and of sufficient intensity. This was done by filling the source with a mixture of hydrogen and deuterium. The deuteron beam was obtained by using the reaction Be⁹(d, n)B¹⁰. In the case when both beams were simultaneously used, one beam was deflected by a magnetic analyzer through 90°, and the second was deflected 45°. To determine the feasibility of using both beams simultaneously, the compositions of the ion beam were investigated when the ion source was fed with hydrogen, deuterium, or a mixture of the two. When the source was fed with

Card 1/2

hydrogen, the resultant H_2^+ beam could be used to stabilize the voltage of the generator. When the source was fed with deuterium, the deutron beam was fed to the target at 45°, and a small beam of protons went to the ion channel (10% of the total ion current). When the source operated with the mixture, the proton beam in the ion channel was 40% of the total ion beam. At the same time, the target received at an angle of 45° a beam of H_2^+ and D_1^+ , the latter ranging from 40 - 60% of the total. The generator voltage could be stabilized with either of the two latter beams. Prolonged operation of the EG-2.5 as a neutron generator with simultaneous use of the proton beam demonstrated the advisability of feeding the generator source with a mixture of hydrogen and deuterium. Orig. art. has: 2 figures and 3 formulas.

SUB CODE: 18, 20/ SUBM DATE: 00/ ORIG REF: 001

Card 2/2

ACC NR: AP7004981

SOURCE CODE: UR/0048/66/030/009/1487/1489

AUTHOR: Dvinyaninov, B.L.; Gavrilov, F.F.

ORG: none

TITLE: Dynamics of the formation of some color centers in lithium hydride /Report, Fourteenth All-Union Conference on Luminescence (Crystal Phosphors) held at Riga, 16-23 Sept. 1965/

SOURCE: AN SSSR. Izvostiya. Seriya fizicheskaya, v. 30, no.9, 1966, 1487-1489

TOPIC TAGS: lithium compound, hydride, absorption spectrum, single crystal, color center

ABSTRACT: The authors have recorded absorption spectra of LiH crystals grown slowly from the melt and have investigated the effects on the absorption of ultraviolet irradiation and changes in the conditions under which the crystals were grown. All the crystals were transparent in the visible and had a very strong absorption band in the 220-260 mm region. Rapid cooling during crystal growth or the presence of an excess of lithium in the melt resulted in a broadening of this band. Irradiation with low intensity 253 mm radiation resulted first in a partial bleaching of this band and splitting of the band into two bands. After further irradiation the absorption again increased and the two component bands merged. These results are regarded as favoring the hypothesis that this band is due to absorption by F centers

Card 1/2

ACC NR: AP7004981

rather than to exciton absorption. Ultraviolot irradiation gave rise also to other absorption bands in the LiH crystals. The crystals that contained an excess of lithium or that were cooled rapidly during growth behaved similarly to LiH:Mg crystals. The growth under ultra violet irradiation of the 655 mm absorption band due to colloidal lithium was different, depending on whether a given ultraviolet dose was received over a long time interval from a weak source, or was delivered rapidly from a strong source; the peak of the absorption band occurred at a shorter wavelength when the ultraviolet dose was received rapidly than when it was received slowly. From this it is concluded that the formation of colloidal lithium in LiH crystals involves a stage in which color centers are produced. Orig. art. has:

SUB CODE: 20 SUBM DATE: none ORIG. REF: 002 OTH REF: 005

Card 2/2

ACC NR: AP7007711 SOURCE CODE: UR/0139/67/000/001/0069/0073

AUTHOR: Shul'gin, B. V.; Gavrilov, F. F.; Dvinyaninov, B. L.; Koryakov, V. I.; Chirkov, A. K.

ORG: Ural Polytechnic Institute imeni S. M. Kirov (Ural'skiy politekh-nicheskiy institut)

TITLE: Paramagnetic resonance of irradiated lithium hydride luminescent crystals

SOURCE: IVUZ. Fizika, no. 1, 1967, 69-73

TOPIC TAGS: luminescent crystal, activated crystal, absorption line, electron paramagnetic resonance, lethium compound, hydrick, temperature sixuadence, color conter

ABSTRACT: The dependence of the intensity and width of the absorption line of the EPR on temperature was investigated in irradiated lithium hydride luminescent crystals. The irradiation was done at room temperature with the unfiltered light of an SVD-120 mercury lamp and betatron electrons with energies of 8 to 10 Mev. The temperature dependence of the intensity and width of the EPR absorption line of Lik crystals with blue luminescence undergoes a sharp change in the temperature range from 90 to 120°C. The first maximum on the thermoluminescence curve is also observed in this range. This coincidence

Card 1/2

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ACC NR: AP7007711

occurs because the centers of the electron capture in LiH responsible for the first thermoluminescence peak are bound with the colloidal lithium. The release of electrons from the capture level corresponding to the first thermoluminescence peak causes the elimination of these absorption centers. As a result, the intensity of the paramagnetic absorption line decreases and the width increases due to the absorption by the color cneters. The authors thank M. Lemberberg who participated in the investigation of the optical absorption spectra of LiH. Orig.'art. has: 3 figures.

SUB CODE: 20/ SUBM DATE: 03Amg657 OTH REF: 003

Card 2/2

DVINYANINOV, L.I.

DVINYANINOV, L.I.

Analysis of neural regulation of gastric secretory areas. Trudy Inst. fiziol. 3:86-104 | 54. (MLRA 8:2)

1. Laboratoriya fiziologii i patologif pishchevareniya i krovoobrashcheniya. Zaveduyushchiy A.V.Solov'yev. (GASTRIC JUICE,

secretion, neural regulation)
(AUTONOMIC NERVOUS SYSTEM, physiology, regulation of gastric secretion)

DVINYANIHOV, L.I.

Role of the nervous system in secretory function of the stomach following prolonged feeding with one type of food. Trudy Inst. fiziol. 3:105-126 '54. (MLRA 8:2)

1. Laboratoriya fiziologii i patologii pishchevareniya i krovoobrashcheniya. Zaveduyushchiy A.V.Solov'yev. (GASTRIC JUICE.

secretion, vagus regulation)
(NERVES, VAGUS, physiology,
regulation of gastric secretion)

USSR/Human and Inital Physiology. Thermoregulation.

Abs Jour: Ref Zhur-Biol., No 20, 1958, 93052.

Author : Dvinyaninov, L.I.

Inst Title : Development of Fever Reaction in Birds (Comparative

Pathology of Fever).

Orig Pub: V sb.: Fiziol. mekhanizmy likhoradochm. reektsii, L.,

Medgiz, 1957, 75-89.

Abstract: The consumption of exygen (CO) in heas prior to infection by a culture of Pasteurella avium was constant. Changes in the body temperature (ET) and CO after infection developed in 3 stages. In the first stage (duration $7 - 10\frac{1}{2}$ hours) BT did not change, but CO was somewhat lowered in some of the hens, and in others it increased; in the second

: 1/3 Card

22

USSR/Huren and Animal Physiology. Thermoregulation.

Abs Jour: Ref Zhur-Biol., No 20, 1958, 93052.

stage (2 - 10½ hours) BT increased in all the hens (0.5 - 1.1%), and CO diminished (18%); in the third stage (1 - 6 hours) BT was lowered, and 30 fell (40%), and the hens died. In other experiments hens were infected with an injection of a pheumococcus culture. Development of a fever reaction, sometimes delayed, was noted. An elevation of BT more often correlated with a lowering of CO. Consequently, both with infection by a definitely pathological culture and also after introduction of a weakly virulent culture, a transitory elevation of the body temperature was observed, and simultaneously, in most of the cases, a lowering of CO. In experiments in infected hens as well as in hens which were running

Card : 2/3

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USSR/Human and Initial Physiology. Thermoregulation.

Abs Jour: Ref Mhur-Biol., No 20, 1958, 93052.

temperatures, CO was significantly increased ($\frac{1}{2}$ - 2 times) after introduction of α -dimetrophenol. This increase was maintained for 4 - 5 hours and then fell, although BT still remained high or even continued to increase. ... F.I. Munladze.

Card : 3/3

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DVINYAHIHOV, L.I.

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